

Title (en)

OVERFLOW VALVE FOR A FUEL INJECTION SYSTEM, AND FUEL INJECTION SYSTEM

Title (de)

ÜBERSTRÖMVENTIL FÜR EIN KRAFTSTOFFEINSPRITZSYSTEM SOWIE KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)

SOUPAPE DE DÉCHARGE POUR SYSTÈME D'INJECTION DE CARBURANT AINSI QUE SYSTÈME D'INJECTION DE CARBURANT

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Application

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- EP 2014067644 W 20140819

Abstract (en)

[origin: WO2015028353A1] The invention relates to an overflow valve for a fuel injection system, in particular a common rail injection system, comprising a valve housing (1) with an inlet (2) and with at least one outlet (3), and comprising a valve element (4) which is accommodated in the valve housing (1) and which is guided in axially displaceable fashion and by means of the axial displacement of which counter to the spring force of a spring (5) the inlet (2) and the outlet (3) can be connected, wherein the spring (5) is accommodated in a spring chamber (6) of the valve housing (1), which spring chamber can be connected via a relief bore (7) to a low-pressure region (8) of the fuel injection system. According to the invention, means (9) for preventing overfilling of the spring chamber (6) are provided, wherein the means (9) comprise an annular groove (10, 10'), which is formed in the guide region of the valve element (4) and which is connected or connectable to the outlet (3), and/or a check valve (11) via which the spring chamber (6) is connectable to the low-pressure region (8). The invention also relates to a fuel injection system having an overflow valve of said type.

IPC 8 full level

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